

PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Fifth Supplemental
(use as many sheets as necessary)

C mplete if Known

Application Number	10/028,631
Filing Date	12/21/2001
First Named Inventor	Howarth
Group Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245

Sheet

1

of

1

Attorney Docket Number

SU-7245

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>McCluskey</i>	Date Considered	1/5/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of US PTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND T : Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (08-03)

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Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Third Supplemental (use as many sheets as necessary)		Application Number	10/028,631		
		Filing Date	12/21/2001		
		First Named Inventor	Howarth et al.		
		Group Art Unit	1616		
		Examiner Name	Neil S. Levy		
Sheet	1	of	2	Attorney Docket Number	SU-7245

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	L-2	Blaser, Martin J., et al., "Inactivation of <i>Campylobacter jejuni</i> by Chlorine and Monochloramine", Applied and Environmental Microbiology, vol 51, no. 2, 1988, ppg 307-311.	
	L-3	Carr, Anitra C., "Differential reactivities of hypochlorous and hypobromous acids with purified Escherichia coli phospholipid: formation of haloamines and haloaldehydes", Biochimica et Biophysica, 1392, 1998, ppg 254-264.	
	L-4	Dickens, J.A., et al., "Efficacy of an Herbal Extract on the Microbiological Quality of Broiler During a Simulated Chill", Poultry Science, 2000, vol 79, ppg 1200-1203.	
	L-5	Fabrizio, K.A., et al., "Comparison of Electrolyzed Oxidizing Water with Various Antimicrobial Interventions to Reduce Salmonella Species on Poultry", Poultry Science, 2002, vol 81, ppg 1598-1605.	
	L-6	Hawkins, Clare L., et al., "Hypochlorite- and Hypobromite-Mediated Radical Formation and Its Role in Cell Lysis", Archives of Biochemistry and Biophysics, vol 395, no. 2, November 15, 2001, ppg 137-145.	
	L-7	Kumar, Krishan, et al., "Kinetics and Mechanism of General-Acid-Assisted Oxidation of Bromide by Hypochlorite and Hypochlorous Acid", Inorg. Chem., 1987, vol 26, ppg 2706-2711.	
	L-8	Lillard, H.S., "Effect of Trisodium Phosphate on Salmonellae Attached to Chicken Skin", Journal of Food Protection, vol 57, no. 6, June 1994, ppg 465-469.	
	L-9	Mead, G.C., et al., "The Effectiveness of In-plant Chlorination in Poultry Processing", Br. Poult. Sci., vol 16, 1975, ppg 517-526.	
	L-10	Northcutt, J.K., et al., "Effect of Broiler Age, Feed Withdrawal, and Transportation on Levels of Coliforms, Campylobacter, Escherichia coli and Salmonella on Carcasses Before and After", Poultry Science, 2003, vol 82,	
	L-11	Patterson, J.T., "Chlorination of Water Used For Poultry Processing", British Poultry Science, vol 9, part 2, 1968, ppg 129-133.	
	L-12	Selk, S.H. et al., "Comparative Antimicrobial Activity, In Vitro and In Vivo, of Soft N-Chloramine Systems and Chlorhexidine", Applied and Environmental Microbiology, Apr. 1982, pp 899-904.	

Examiner Signature		Date Considered	11/07/05
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Third Supplemental (use as many sheets as necessary)		Complete if Known	
		Application Number	10/028,631
		Filing Date	12/21/2001
		First Named Inventor	Howarth et al.
		Group Art Unit	1616
		Examiner Name	Neil S. Levy
		Attorney Docket Number	SU-7245
Sheet	2	of	2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
M	L-13	Tamblyn, K.C., et al., "Utilization of the Skin Attachment Model to Determine the Antibacterial Efficacy of Potential Carcass Treatments", Poultry Science, 1997, vol 78, ppg 1318-1323.	
	L-14	Tsai, Lee-Shin, et al., "Chlorination of Poultry Chiller Water: Chlorine Demand and Disinfection Efficiency", Poultry Science, 1992, vol 71, ppg 188-196	
	L-15	"Pathogen Reduction: Hazard Analysis and Critical Control Point (HACCP) Systems; Final Rule", Federal Register, July 25, 1996, vol 61, no 144, pg 38806-38814 and 38854-38855.	
	L-16	Vissers, Margret C.M., et al., "Comparison of human red cell lysis by hypochlorous and hypobromous acids: Insights into the mechanism of lysis", Biochem. J., vol 330, 1998, ppg 131-138.	
	L-17	Vissers, Margret C.M., et al., "Fatty acid chlorohydrins and bromohydrins are cytotoxic to human endothelial cells", Redox Report, vol 6, no. 1, 2001, ppg 49-55.	
	L-18	Wabeck, Charles J., "Methods to Reduce Microorganisms on Poultry", Broiler Industry, December 1994, ppg 34, 36, 38, 40, 42.	
	L-19	Yang, Hong, et al., "Survival and Death of Salmonella Typhimurium and Campylobacter jejuni in Processing Water and on Chicken Skin during Poultry Scalding and Chilling", Journal of Food Protection, vol 64, no 6, 2001, ppg 770-	
	L-20	"9215 C. Spread Plate Method", Microbiological Examination (9000), ppg 9-38 - 9-40.	

Examiner Signature		Date Considered	1/08/02
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Fourth Supplemental
(use as many sheets as necessary)

Sheet

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of

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Complete if Known

Application Number	10/028,631
Filing Date	12/21/2001
First Named Inventor	Howarth
Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² of Interest	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
M	US-2	US-2130805	09-20-1938	Levine	
	US-3	US-2392505	01-08-1946	Rogers	
	US-4	US-2398598	04-18-1946	Rogers	
	US-5	US-2779784	01-28-1956	Paterson	
	US-6	US-2795556	06-11-1957	Quinn	
	US-7	US-2868787	01-13-1959	Paterson	
	US-8	US-2920987	01-12-1960	Wolf et al.	
	US-9	US-2971959	02-14-1961	Waugh et al.	
	US-10	US-2971960	02-14-1961	Waugh et al.	
	US-11	US-3121715	02-18-1964	Waugh et al.	
	US-12	US-3147219	09-01-1964	Paterson	
	US-13	US-3147259	09-01-1964	Paterson	
	US-14	US-3345371	10-03-1967	Paterson	
	US-15	US-3412021	11-19-1968	Paterson	
	US-16	US-3826972	12-14-1971	Lorenzen	
	US-17	US-4078099	03-07-1978	Mazzola	
	US-18	US-4119535	10-10-1978	White et al.	
	US-19	US-4126717	11-21-1978	Mazzola	
	US-20	US-4136052	01-23-1979	Mazzola	
	US-21	US-4199001	04-22-1980	Kratz	
	US-22	US-4242216	12-30-1980	Daugherty et al.	
	US-23	US-4270585	08-02-1981	King, Sr.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
M	FP-5	CA - 1230825	12-29-1987	Bristol-Myers Co.		
	FP-6	CA - 2042430	11-30-1991	Eltech Systems Corp.		
	FP-7	CA - 2163596	09-04-1996	S.C. Johnson & Son, Inc.		
	FP-8	EP - 0106563	04-25-1984	Rohm and Haas		
	FP-9	EP - 0177645	04-16-1988	Glyco Inc.		
	FP-10	EP - 0206725	12-30-1986	Jeyes Group Limited		
	FP-11	EP - 0228593	07-15-1987	Chesebrough-Pond's Inc.		
	FP-12	EP - 0581826	02-09-1994	Jeyes Limited		
	FP-13	GB - 1054243	01-04-1967	Wallace Cameron & Co.		
	FP-14	GB - 1600289	10-14-1981	Fisons Limited		
	FP-15	GB - 2273106	06-08-1994	Jeyes Group PLC		
	FP-16	JP - 56158333	12-07-1981	Teijin Ltd.		X
	FP-17	JP - 7299468	11-14-1995	Hakuto Co., Ltd.		X

Examiner Signature	<i>Neil S. Levy</i>	Date Considered	1/8/02
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT SEP 27 2004 (Use as many sheets as necessary)		Application Number	10/028,631
		Filing Date	12/21/2001
		First Named Inventor	Howarth
		Art Unit	1616
		Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245		

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		Number-Kind Code ² (if known)			
M	US-24	US-4293425	10-06-1981	Price	
	US-25	US-4327151	04-27-1982	Mazzola	
	US-26	US-4331174	05-25-1982	King, Sr.	
	US-27	US-4382789	05-10-1983	Davis et al.	
	US-28	US-4427692	01-24-1984	Girard	
	US-29	US-4451376	05-29-1984	Sharp	
	US-30	US-4465839	08-14-1984	Schulte et al.	
	US-31	US-4532330	07-30-1985	Cole	
	US-32	US-4534963	08-13-1985	Gordon	
	US-33	US-4537697	08-27-1985	Girard	
	US-34	US-4580766	12-24-1985	Girard et al.	
	US-35	US-4571333	02-18-1986	Hsiao et al.	
	US-36	US-4587841	07-01-1986	Bottom et al.	
	US-37	US-4621098	11-04-1986	Cole	
	US-38	US-4654424	03-31-1987	Girard et al.	
	US-39	US-4659359	04-21-1987	Lorenz et al.	
	US-40	US-4662387	05-05-1987	King, Sr.	
	US-41	US-4677130	06-30-1987	Puzig	
	US-42	US-4692335	09-08-1987	Iwanski	
	US-43	US-4698165	10-06-1987	Theyson	
	US-44	US-4713079	12-15-1987	Chun et al.	
	US-45	US-4728453	03-01-1988	Choy	
	US-46	US-4745189	05-17-1988	Lee et al.	
	US-47	US-4780197	10-25-1988	Schuman	
	US-48	US-4803079	02-07-1989	Hsiao et al.	
	US-49	US-4867895	09-19-1989	Choy	
	US-50	US-4919841	04-24-1990	Kamel et al.	
	US-51	US-4925866	05-15-1990	Smith	
	US-52	US-4964892	10-23-1990	Hsu	
	US-53	US-5076315	12-31-1991	King	
✓	US-54	US-5137563	08-11-1992	Valkanias	
	US-55	US-5218883	08-15-1993	Kino	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ² - Number ³ - Kind Code ⁴ (if known)			
M	FP-18	WO 8802987	05-06-1988	Great Lakes Chemical Corp.	
	FP-19	WO 8910696	11-18-1989	Great Lakes Chemical Corp.	
✓	FP-20	WO 9630491	10-03-1996	Jeyes Group PLC	
	FR-21	WO 9715652	05-01-1997	The Clorox Co.	
	FP-22	WO 9720548	08-12-1997	The Procter & Gamble Co.	

Examiner Signature	<i>Neil S. Levy</i>	Date Considered	1/08/02
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

SEP 27 2004

Fourth Supplemental

(use as many sheets as necessary)

Sheet

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First Named Inventor	Howarth
Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245

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	US-56	US-5338481	08-18-1994	Jones	
	US-57	US-5339889	08-23-1994	Bigham	
	US-58	US-5384102	01-24-1995	Ferguson et al.	
	US-59	US-5403813	04-04-1995	Lichti et al.	
	US-60	US-5409711	04-25-1995	Mapelli et al.	
	US-61	US-5422126	06-06-1995	Howarth et al.	
	US-62	US-5478116	12-19-1995	Price et al.	
	US-63	US-5565108	10-15-1996	Sweeny	
	US-64	US-5565576	10-15-1996	Hall et al.	
	US-65	US-5578559	11-26-1996	Dolan et al.	
	US-66	US-5591892	01-07-1997	Jones et al.	
	US-67	US-5603941	02-18-1997	Farina et al.	
	US-68	US-5610126	03-11-1997	Barford et al.	
	US-69	US-5614528	03-25-1997	Jones et al.	
	US-70	US-5670451	09-23-1997	Jones et al.	
	US-71	US-5750081	05-12-1998	Farina et al.	
	US-72	US-5753802	05-19-1998	Hung et al.	
	US-73	US-5756440	05-26-1998	Watanabe et al.	
	US-74	US-5763376	06-09-1998	Ward et al.	
	US-75	US-5780841	07-14-1998	Yerushalmi et al.	
	US-76	US-5859060	01-12-1999	Platt	
	US-77	US-5942153	08-24-1999	Heydel	
	US-78	US-5958853	09-28-1999	Watanabe	
	US-79	US-5972864	10-26-1999	Counts	
	US-80	US-5981481	11-09-1999	Counts et al.	
	US-81	US-5984994	11-16-1999	Hudson	
	US-82	US-6284144	09-04-2001	Itzhak	
	US-83	US-6448410	09-10-2002	Howarth et al.	
	US-84	US-6495688	12-17-2002	Howarth	
	US-85	US-6508954	01-21-2003	Einagar et al.	
	US-86	US-6565868	05-20-2003	Howarth et al.	
	US-87	US-6638959	10-28-2003	Howarth et al.	
	US-88	US-6680970	01-20-2004	Howarth et al.	

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	FP-27	WO 0153209	07-26-2001	Albemarle Corp.		

Examiner
Signature*Med*Date
Considered

11/08/03


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Substitute for form 1448B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT SEP 27 2004 Fourth Supplemental (use as many sheets as necessary)		Application Number	10/028,631
		Filing Date	12/21/2001
		First Named Inventor	Howarth
		Group Art Unit	1616
		Examiner Name	Neil S. Levy
Attorney Docket Number	SL-7245		
Sheet	4	of	5

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	L-20	Corral et al., "Substitution in the Hydantoin Ring. III. Halogenation", J. Org. Chem., 1963, Vol. 28, ppg. 1100-1104.	
	L-21	Jolles, "General Methods of Bromination", Bromine and its Compounds, 1966, Ernest Benn, London, ppg. 365.	
	L-22	Markish et al., "New Aspects on the Preparation of 1,3-Dibromo-5,5-Dimethylhydantoin", Ind. Eng. Chem. Res. 1995, Vol. 34, ppg. 2125-2127.	
	L-23	Orazi et al., "Halogenacion con 3-Bromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1949, Vol. 37, ppg. 192-196. (Not translated)	
	L-24	Orazi et al., "Halogenacion Con 1-3-Dibromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1950, Vol. 38, ppg. 5-11. (Not translated)	
	L-25	Gottardi: Reaction of Cl Br - In Aqueous solution (76 Zeitralks. Bakteriell., Parasiteukd.,) In Infektionskr. Hyg., Abt. I; Orig., Geihe B 162 (3-4), ppg 384-388.	
	L-26	March, "Advanced Organic Chem.", 1992, 4 th Edition, ppg. 639-640.	
	L-27	HCAPLUS Abstract of JP 07171576 A2 issued 1995.	
	L-28	HCAPLUS Abstract of JP 07277912 A2 issued 1995.	
	L-29	HCAPLUS Abstract of JP 08027119 A2 issued 1996.	
	L-30	Chowhan et al., "Hardness Increase Induced by Partial Moisture Loss in Compressed Tablets and Its Effect on In Vitro Dissolution", J. Pharm. Sciences, October 1978, Vol. 67, No. 10, ppg. 1385-1389.	
	L-31	Krycer et al., "An Evaluation of Tablet Binding Agents Part II. Pressure Binders", Powder Technology, 1983, Vol. 34, ppg. 53-56.	
	L-32	Petterson, "N-Halogen Compounds. I Decomposition of 1,3-Dichloro-5,5-dimethylhydantoin in Water at pH 9", J. Org. Chem., 1959, Vol. 24, ppg. 1414-1419.	
	L-33	HCAPLUS Abstract of JP 08239699 A2 issued 1996.	
	L-34	HCAPLUS Abstract of JP 09087684 A2 issued 1997.	
	L-35	HCAPLUS Abstract of JP 09227317 A2 issued 1997.	
	L-36	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor-Only) and Brominators, Hayward Pool Products Inc. Website, < http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=61 >, 2 pages.	
L-37	Author unknown, "Big Brother Brominator - Brominators", Bulky Systems Website, < http://www.bulkysystemsinc.com/brominator.htm > (Visited August 10, 2001), 1 page.		

Examiner Signature		Date Considered	1/08/02
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

 SEP 27 2004
 Fourth Supplemental
 (use as many sheets as necessary)

Sheet 5 of 5

Application Number	10/028,631
Filing Date	12/21/2001
First Name and Inventor	Howarth
Group Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket	SU-7245

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
M	L-38	Hayward Pool Products Owner's Guide, Installation and Operating Instructions, "Hayward Chemical Feeder", Models C250CF, C500CF, C1100CF, C1800CF, C2400CF, - 1998 - 4 pages	
	L-39	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor Only) and Brominators, Buyers Guide, Hayward Pool Products Inc., Website, <http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=60>, 2 pg	
	L-40	Pentair Pool Products Brochure, "Rainbow High Capacity Chlorine/Bromine Feeders", "Unsurpassed Performance From The Industry's Leader in Automatic Sanitizing of Large Residential and Commercial Pools", date unknown, 1 page.	
	L-41	Pentair Pool Products Brochure, "Rainbow Model 300 Automatic Chlorine/Bromine Off-line Feeders", "The Efficient, Easy Way to Sanitize Your Pool or Spa", date unknown, 1 page.	
	L-42	Pentair Pool Products Brochure, "Rainbow Model 320 Automatic Chlorine/Bromine In-line Feeder", "Saves Time, Reduces Manual Handling of Chemicals", date unknown, 7 pages.	
	L-43	Sani-King Perform-Max Pool Sanitizer Instruction Guide, Models 910, 940, & 980 (In-line) and Models 930 & 960 (Off-line), date unknown, 16 pages.	
M	L-44	Sani-King Spa Feeder Product Brochure Model 740 from King Technology Website, <http://www.kingtechnology.com/spafeeder.htm> (Visited August 10, 2001), 2000, 4 pages.	
M	L-45	Sani-King Adjust-A-Flo Product Brochure from King Technology Website <http://www.kingtechnology.com/spafeeder.htm> (Visited August 10, 2001), 2000, 1 page.	
M	L-46	Sani-King Perform-Max Sanitizers for Inground Pools Product Brochure for Model 940 & 960 from King Technology Website, <http://www.kingtechnology.com/performmaxIG.htm>, visited August 10, 2001, 2000, 1 page	
	L-47	Sani-King Perform-Max Sanitizers for Above Ground Pools Product Brochure Model 910 & 930 from King Technology Website, <http://www.kingtechnology.com/performmaxAG.htm>, visited August 10, 2001, 2000, 1 page	
	L-48	Discount Pool & Spa Supplies, Automatic Chlorinators and Chemical Feeders Website, <http://www.discountpoolsupplies.com/ChemFeeders> Visited August 10, 2001, 3 pages.	
M	L-49	Sorun - Fundamentals of General Chemistry, p. 315, 1955.	
M	L-50	AJ Zahran, S.M., "Utilization of Polyethylene and Paraffin Waxes as Controlled Delivery Systems for Different Fertilizers", Ind. Eng. Chem. Res., 2000, vol 39, pp 369-371.	

Examiner Signature	<i>Neil S. Levy</i>	Date Considered	1/08/02
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